



### Features and Benefits

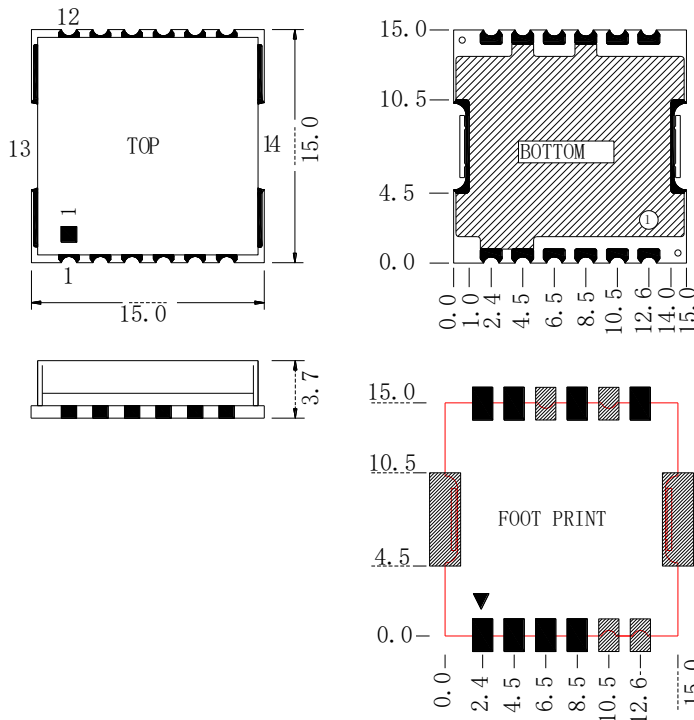
- Frequency Range:469-471MHz
- Supply Voltage:5.0V
- Current: 30mA Max.
- 3 wire serial Fractional PLL
- Output power: +2.0dBm Max.
- Phase noise: -111dBc/Hz@10KHz
- Operating temperature: -40°C--+85°C
- Size:15x15x3.7mm
- Package type: SMD

### Typical Applications

- Base station
- Cable TV
- Satellite Communications
- UHF radio link

### Mechanical Drawing & Pin Connections

Drawing No: MD240065-1



Pin Connections:

Pin	Function
1	CLK
2	DATA
3	LE
4	Ref. IN
5&6	GND
7	VCC(VCO)
8	GND
9	RF Out
10	GND
11	Lock Detect
12	Vcp(PLL)
13&14	GND

Unit in mm  
1mm = 0.0394 inches



## Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	469		471
Output Power	dBm	-2.0	0.0	+2.0
Step Size	KHz		25	
Settling Time	msec		10	30
Output Impedance	$\Omega$		50	
Phase Noise @1kHz offset	dBc / Hz		-89	-84
Phase Noise @10kHz offset	dBc / Hz		-111	-106
Phase Noise @100kHz offset	dBc / Hz		-132	-127
Phase Noise @1MHz offset	dBc / Hz		-150	-145
2nd Harmonic Suppression	dBc		-25	-20
Sideband Spurious Suppression	dBc			-75
Reference (input frequency)	MHz	5		100
Reference (input level)	dBm	-5		+5
VCO Power Supply (Vcc) Voltage	Vdc		5	
VCO Power Supply (Vcc) Current	mA		22	30
PLL Power Supply (Vcp) Voltage	Vdc		5	
PLL Power Supply (Vcp) Current	mA		5	10
Operating Temperature Range	$^{\circ}\text{C}$	-40		+85